

Figure 1

1 gaatgaat gaactagtta ccacaactag tacacccaaa atgaacaaaa

49 aatagcttgg tggataaatt aaaatgccac caaaatttat acaataatta tattttcttt

109 ttgcaggaaa aagattagac cacatataat gtaacttatt tcacaaggta aataattata

169 ataaataata tggattaact gagtttttaa aggtgaaata aataatgaat tcttctcatg

229 gtcttgtatg ttaataaaaa ttgaaaaatt ttgaagaccc cattttgtcc caagaatttc

289 atttacaggt attgaatttt tcaaaggtta caaaggaaat tttattgata taataaatgc

349 atgttctcat aataaccata aatctagggt tttgttggg ttttttttg tttgttaatt

409 tagaacaatg ccattccatt tctgtataa tgagtcactt ctttgttgta aactctcctt

469 agaatttctt gggagaggaa ctgaacagaa cattgatttc ctatgtgaga gaattcttag

529 aatttaaata aacctgttgg ttaaactgaa accacaaaat tagcatttta ctaatcagta

589 ggtttaaata gcttgggaagc aaaagtctgc ▼ catcaccttg atcatcaac cagcttgcctg

649 cttcttcccca gtcttgggtt caaggattta tgtatacata taacaaaatt tctatgattt

709 tctctgtct catctttcat tcttcaactaa tacgcagttg taacttttct atgtgattgc

769 aagtattggt actttcctat gatatactgt tagcttaaaa atatatttgc aaatgttgat

829 actatctatc tcagagctat aggtgaaaaa ttaaatactt ttataaagac caaattgatc

889 atttttaaac gaaattctta tatactgaaa atgtagatac ataacttcag tatagattta

949 tggtaaaata atttgaatca ttttgtcaa attctgtaaa aagttgtcat acagaataat

1009 ttataatatt tttgttttca tagaaataac attt ctggta gaataattca agc 1061

▼ indicates the start of exon 1

10/524295

Figure 2

| Sequence alignment of the 4 alleles | | | | | | |
|--|-----|------------|------------|------------|-------------|-----------------|
| Variations in transcription factor binding sites are marked with boxes | | | | | | |
| | 10 | 20 | 30 | 40 | 50 | |
| Allel_1 | 1 | GAATGAATGA | ACTAGTTACC | ACAACTAGTA | CACCCAAAAT | GAACAAAAAA 50 |
| Allel_2 | 1 | GAATGAATGA | ACTAGTTACC | ACAACTAGTA | CACCCAAAAT | GAACAAAAAA 50 |
| Allel_3 | 1 | GAATGAATGA | ACTAGTTACC | ACAACTAGTA | CACCCAAAAT | GAACAAAAAA 50 |
| Allel_4 | 1 | GAATGAATGA | ACTAGTTACC | ACAACTAGTA | CACCCAAAAT | GAACAAAAAA 50 |
| | 60 | 70 | 80 | 90 | 100 | |
| Allel_1 | 51 | TAGCTTGGTG | GTATAATTAA | AATGCCACCA | AAGTTTATAC | AATAATTGTA 100 |
| Allel_2 | 51 | TAGCTTGGTG | GTATAATTAA | AATGCCACCA | AAATTTATAC | AATAATTATA 100 |
| Allel_3 | 51 | TAGCTTGGTG | GTATAATTAA | AATGCCACCA | AAATTTATAC | AATAATTATA 100 |
| Allel_4 | 51 | TAGCTTGGTG | GTATAATTAA | AATGCCACCA | AAATTTATAC | AATAATTATA 100 |
| | 110 | 120 | 130 | 140 | 150 | |
| Allel_1 | 101 | TTTTCTTTTT | GCAGGAAAAA | GATTAGACCA | CATATAATGT | AACCTATTTTC 150 |
| Allel_2 | 101 | TTTTCTTTTT | GCAGGAAAAA | GATTAGACCA | CATATAATGT | AACCTATTTTC 150 |
| Allel_3 | 101 | TTTTCTTTTT | GCAGGAAAAA | GATTAGACCA | CATATAATGT | AACCTATTTTC 150 |
| Allel_4 | 101 | TTTTCTTTTT | GCAGGAAAAA | GATTAGACCA | CATATAATGT | AACCTATTTTC 150 |
| | 160 | 170 | 180 | 190 | 200 | |
| Allel_1 | 151 | ACAAGGTAAA | TAATTATAAT | AAATAATATG | GATTAAGTGA | GTTTTTAAAG 200 |
| Allel_2 | 151 | ACAAGGTAAA | TAATTATAAT | AAATAATATG | GATTAAGTGA | GTTTTTAAAG 200 |
| Allel_3 | 151 | ACAAGGTAAA | TAATTATAAT | AAATAATATG | GATTAAGTGA | GTTTTTAAAG 200 |
| Allel_4 | 151 | ACAAGGTAAA | TAATTATAAT | AAATAATATG | GATTAAGTGA | GTTTTTAAAG 200 |
| | 210 | 220 | 230 | 240 | 250 | |
| Allel_1 | 201 | GTGAAATAAA | TAATGAATTC | TTCTCATGGT | CTTGTATGTT | AATAAAAATT 250 |
| Allel_2 | 201 | GTGAAATAAA | TAATGAATTC | TTCTCATGGT | CTTGTATGTT | AATAAAAATT 250 |
| Allel_3 | 201 | GTGAAATAAA | TAATGAATTC | TTCTCATGGT | CTTGTATGTT | AATAAAAATT 250 |
| Allel_4 | 201 | GTGAAATAAA | TAATGAATTC | TTCTCATGGT | CTTGTATGTT | AATAAAAATT 250 |
| | 260 | 270 | 280 | 290 | 300 | |
| Allel_1 | 251 | GAAAAATTTT | GAAGACCCCA | TTTTGTCCCA | AGAATTTCT | TTACAGGTAT 300 |
| Allel_2 | 251 | GAAAAATTTT | GAAGACCCCA | TTTTGTCCCA | AGAATTTTCAT | TTACAGGTAT 300 |
| Allel_3 | 251 | GAAAAATTTT | GAAGACCCCA | TTTTGTCCCA | AGAATTTTCAT | TTACAGGTAT 300 |
| Allel_4 | 251 | GAAAAATTTT | GAAGACCCCA | TTTTGTCCCA | AGAATTTTCAT | TTACAGGTAT 300 |
| | 310 | 320 | 330 | 340 | 350 | |
| Allel_1 | 301 | TGAATTTTTC | AAAGGTTACA | AAGGAAATTT | TATTGATATA | ATAAATGCAT 350 |
| Allel_2 | 301 | TGAATTTTTC | AAAGGTTACA | AAGGAAATTT | TATTGATATA | ATAAATGCAT 350 |
| Allel_3 | 301 | TGAATTTTTC | AAAGGTTACA | AAGGAAATTT | TATTGATATA | ATAAATGCAT 350 |
| Allel_4 | 301 | TGAATTTTTC | AAAGGTTACA | AAGGAAATTT | TATTGATATA | ATAAATGCAT 350 |
| | 360 | 370 | 380 | 390 | 400 | |
| Allel_1 | 351 | GTTCTCATAA | TAACCATAAA | TCTAGGGTTT | TGTTGGGGTT | TTTT--GTTT 400 |
| Allel_2 | 351 | GTTCTCATAA | TAACCATAAA | TCTAGGGTTT | TGTTGGGGTT | TTTTTTGTTT 400 |
| Allel_3 | 351 | GTTCTCATAA | TAACCATAAA | TCTAGGGTTT | TGTTGGGGTT | TTTTTT---- 400 |
| Allel_4 | 351 | GTTCTCATAA | TAACCATAAA | TCTAGGGTTT | TGTTGGGGTT | TTTTTT---- 400 |
| | 410 | 420 | 430 | 440 | 450 | |
| Allel_1 | 401 | GTTAATTTA | GAACAATGCC | ATTCCATTTT | CTGTATAATG | AGTCACTTCTT 450 |
| Allel_2 | 401 | GTTAATTTA | GAACAATGCC | ATTCCATTTT | CTGTATAATG | AGTCACTTCTT 450 |
| Allel_3 | 401 | GTTAATTTA | GAACAATGCC | ATTCCATTTT | CTGTATAATG | AGTCACTTCTT 450 |
| Allel_4 | 401 | GTTAATTTA | GAACAATGCC | ATTCCATTTT | CTGTATAATG | AGTCACTTCTT 450 |
| | 460 | 470 | 480 | 490 | 500 | |
| Allel_1 | 451 | TGTTGTAAA | CTCTCCTTAG | AATTTCTTGG | GAGAGGAACT | GAACAGAACAT 500 |
| Allel_2 | 451 | TGTTGTAAA | CTCTCCTTAG | AATTTCTTGG | GAGAGGAACT | GAACAGAACAT 500 |
| Allel_3 | 451 | TGTTGTAAA | CTCTCCTTAG | AATTTCTTGG | GAGAGGAACT | GAACAGAACAT 500 |
| Allel_4 | 451 | TGTTGTAAA | CTCTCCTTAG | AATTTCTTGG | GAGAGGAACT | GAACAGAACAT 500 |

AP-1
 YY-1

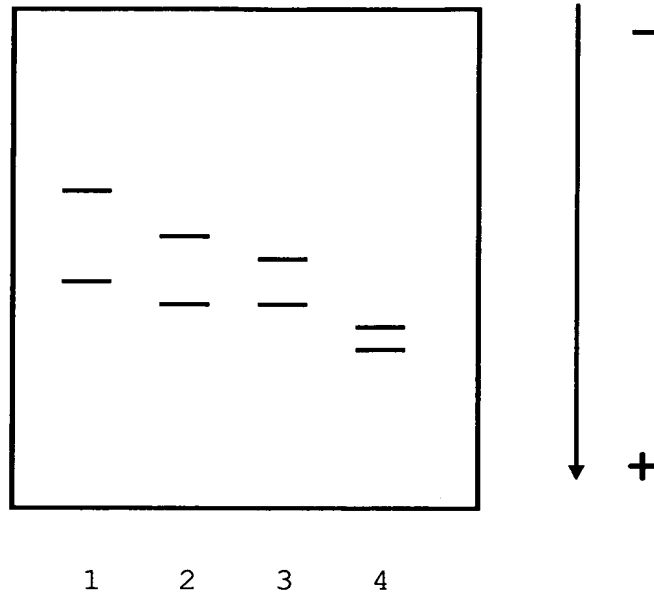
ABF1

Figure 2 (continued)

| | | | | | | |
|---------|----------------|------------|------------|------------|-------------|-----|
| | 510 | 520 | 530 | 540 | 550 | |
| Allel_1 | 501 TGATTTTCCT | ATGTGAGAGA | ATTCTTAGAA | TTTAAATAAA | CCTGTTGGTTA | 550 |
| Allel_2 | 501 TGATTTTCCT | ATGTGAGAGA | ATTCTTAGAA | TTTAAATAAA | CCTGTTGGTTA | 550 |
| Allel_3 | 501 TGATTTTCCT | ATGTGAGAGA | ATTCTTAGAA | TTTAAATAAA | CCTGTTGGTTA | 550 |
| Allel_4 | 501 TGATTTTCCT | ATGTGAGAGA | ATTCTTAGAA | TTTAAATAAA | CCTGTTGGTTA | 550 |
| | 560 | 570 | 580 | 590 | 600 | |
| Allel_1 | 551 AACTGAAAC | CACAAAATTA | GCATTTTACT | AATCAGTAGG | TTTAAATAGCT | 600 |
| Allel_2 | 551 AACTGAAAC | CACAAAATTA | GCATTTTACT | AATCAGTAGG | TTTAAATAGCT | 600 |
| Allel_3 | 551 AACTGAAAC | CACAAAATTA | GCATTTTACT | AATCAGTAGG | TTTAAATAGCT | 600 |
| Allel_4 | 551 AACTGAAAC | CACAAAATTA | GCATTTTACT | AATCAGTAGG | TTTAAATAGCT | 600 |
| | 610 | 620 | 630 | 640 | 650 | |
| Allel_1 | 601 TGGAAGCAA | AAGTCTGCCA | TCACCTTGAT | CATCAACCCA | GCTTGCTGCTT | 650 |
| Allel_2 | 601 TGGAAGCAA | AAGTCTGCCA | TCACCTTGAT | CATCAACCCA | GCTTGCTGCTT | 650 |
| Allel_3 | 601 TGGAAGCAA | AAGTCTGCCA | TCACCTTGAT | CATCAACCCA | GCTTGCTGCTT | 650 |
| Allel_4 | 601 TGGAAGCAA | AAGTCTGCCA | TCACCTTGAT | CATCAACCCA | GCTTGCTGCTT | 650 |
| | 660 | 670 | 680 | 690 | 700 | |
| Allel_1 | 651 TCTT | | | | | |
| Allel_2 | 651 TCTT | | | | | |
| Allel_3 | 651 TCTT | | | | | |
| Allel_4 | 651 TCTT | | | | | |

10/524295

Figure 3



10/524295

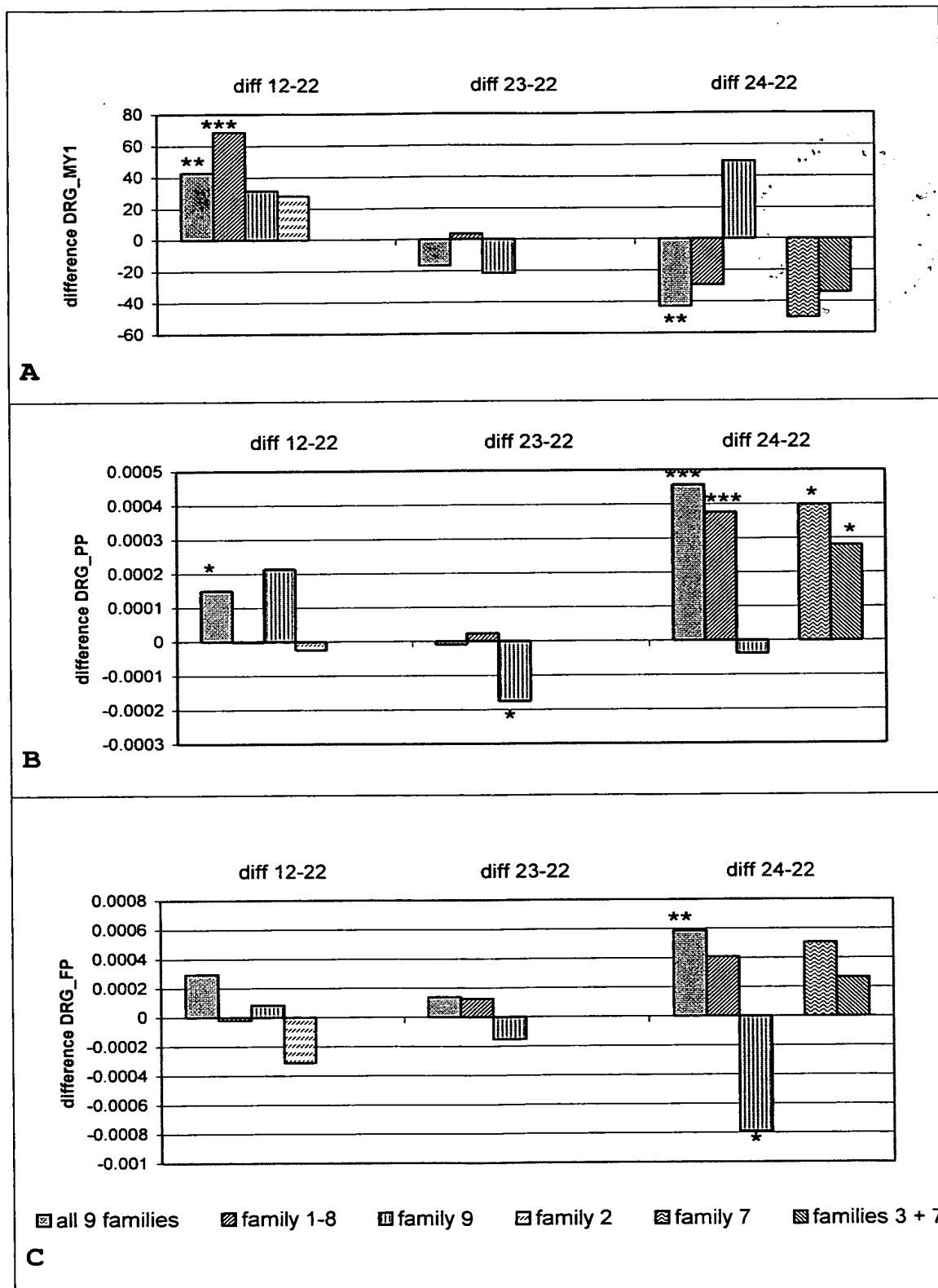


Figure 4